



Project title: Authorize Purchase of Two Battery Electric Fixed Route Transit Buses from Proterra Inc. using the Commonwealth of Virginia contract

City Council Agenda Item Cover Sheet

Council Bill # *interoffice use*

Project: Purchase of two (2), 40' foot electric buses and two (2) chargers

Partner/Supplier : Proterra Inc.

Agenda dates requested:

If relevant

December 18, 2019

Preceding action: *Previous council /committee*

Briefing

Fund: 425

Proposed action

Consent ☒ X

Action

Ordinance

Public hearing

Yes ☒ X No

Budget amendment:

Yes ☒ X No

PowerPoint presentation:

Yes ☒ X No

Attachments:

Department(s) involved:

Purchasing & Transit

Contact person:

Theresa Bauccio-Teschlog

Phone number:

(425) 257-8901

Email:

tbauccio@everettwa.gov

Fiscal summary statement:

Transit received a Federal Transit Administration (FTA) Grant for 85% (\$1,375,000) of the purchase of two electric fixed-route transit buses. The remaining 15% is being provided through a Department of Ecology grant. These two grants cover the entire purchase with no match required from the City.

The initial purchase expense is funded through Fund 425, and will subsequently be reimbursed from the grants. The price of the buses and chargers is exempt from sales tax.

The final price of the two buses plus two chargers is \$1,963.630. Minor modifications may be made during the manufacturing of the buses. The buses must be obligated through a purchase order by September 2020 or the City will lose the FTA funding. There are limited bus options available through the Virginia contract; therefore, the authorization to purchase the buses is time-sensitive.

Project summary statement:

Everett Transit needs two electric fixed-route transit buses. These buses are replacement vehicles. The new zero-emission buses will replace two fixed-route transit diesel buses that are between 19 and 24-years old, and will reduce the diesel engine emissions emitted into the atmosphere by Transit services. The buses and chargers will be sales tax exempt per WA RCW 82.04.4496 and RCW 82.12.020.

The buses will be purchased through a Commonwealth of Virginia contract #2712/ EVT #2019-132, which allows for purchases from competitively awarded contracts in lieu of soliciting bids on our own.

Recommendation (exact action requested of Council):

Authorize purchase of two electric fixed-route transit buses and two chargers from Proterra Inc., using the Commonwealth of Virginia contract in the amount of \$1,963,630.

Initialed by:

Department head

Administration

Council President



December 4, 2019

Theresa Bauccio-Teschlog
Purchasing Manager
Everett Transit
3200 Cedar Street
Everett, WA 98201

Subject: Proterra Pricing Proposal – Virginia State Schedule Purchase

Ms. Bauccio-Teschlog:

Proterra Inc (Proterra) thanks you for your interest in purchasing two (2) 40' Catalyst E2 Electric Buses using the Virginia Department of General Services State Contract No. E194-81688 (Virginia Contract). We are pleased to provide this pricing proposal based on the configurable options selected by Everett Transit and the pricing established on the Virginia Contract.

Proterra Pricing Proposal

Product Description	Quantity	Unit Price (\$)	Extended Price (\$)
40' Catalyst E2 Battery Electric Transit Bus (440kWh) <ul style="list-style-type: none">40' Catalyst XR (220kWh) - \$666,082Everett Transit Configurables - \$268,233	2	\$934,315	\$1,868,630
Proterra 60kW PCS + Dispenser <ul style="list-style-type: none">10' CCS CableWall-Mounted Dispenser	2	\$46,500	\$93,000
Commissioning of Proterra Chargers <ul style="list-style-type: none">Travel to site to commission charger equipment after installation	2	\$1,000	\$2,000
Total			\$1,963,630

Please refer to the attached Exhibit A – Configurable Options which identifies the configurable options selected and the pricing for those items.



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Note: The pricing included herein is based on the following conditions and/or assumptions:

1. This pricing does not include any Taxes.
2. The bus pricing is based on:
 - a. The bus configuration options detailed in Exhibit A – Bus Option Tracker
 - b. The warranty durations noted in Exhibit B – Warranty
3. The pricing herein remains valid until such time that the Virginia Contract pricing is updated based on the annual price adjustments allowable in the contract.

Sincerely,

Ethan Carbaugh
Director, Business Engagement
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www.proterra.com | 1 Whitlee Ct. Greenville, SC 29607



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Exhibit A Bus Options

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1815 Rollins Road, Burlingame, CA 94010

East Coast Manufacturing
1 Whitlee Court, Greenville, SC 29607

West Coast Manufacturing
383 Cheryl Lane, City of Industry, CA 91789

www.proterra.com



Option Tracker

OPTION TRACKER				REV G
Customer	Everett Transit			
Number of buses	2		40' Catalyst XR - Virginia State Contract - Base Price	\$666,082
Bus Length / Model	40' Catalyst E2		Summary of Configurable Options	\$268,233
Contract/P.O. #	TBD		Total	\$934,315
Tentative Delivery Date	Q3 2020			
Proterra Tech Spec	Category	Customer Selection	Option	Price Impact
TS 9	Propulsion System (Electric) Energy Storage System	X	E2 (4 HV Battery Packs)	\$100,000
TS 9	Electric Drivetrain	X	DuoPower E-Axle (Single Axle, Dual Electric Motors, Invertors, and Transmissions)	\$40,000
TBD	Overhead Charging Interface	X	Base - None	\$0
TS 9	Charge Ports	X	Two (2) J1772-CCS Charge Ports: (1) Curbside Rear & (1) Streetside Rear	\$2,565
TS 32.1	Wheels (22.5 x 9")	X	Polished Aluminum with Durabright and DuraFlange, ALCOA 896513DD	\$1,476
	Wheel & Tire Accessories	X	Base - Torque Indicators, Green (Wheel Check WLCH-B)	\$0
TS 32.2	Tires	X	Goodyear Metromiler 652 RTB - 315/80/R22.5	\$1,296
		X	Front and Side 48" (Half Solid/Half Mesh)	\$135
TS 46.3	Visors / Sun Shades	X	Note - The Driver's Side Window sunshade is solid to the rear, mesh to the forward section. The front shade is a solid lower, mesh upper.	\$0
TS 46.6	Driver Foot Controls	X	Adjustable Pedals - (With improved pedal angles)	\$1,539
TS 49.8	Mirrors (Exterior)	X	Base - Low Mount SS Exterior Mirror / High-Mount CS Ext. Mirror	\$0
TS 71.1	Appearance (Exterior	X	Paint (Based on Last Design)	\$22,986
TS 75.8	Floor Covering	X	GerFloor (Tarabus, Sirius 6801 Graphite)	-\$19
TS 49	Driver's Seat	X	Base - Recaro Ergo Metro P/N 8H0.01.591.VV11 1. Head Rest (Vinyl) 2. No Armrests 3. No Alarms 4. 240 mm (9.25") Tracks 5. Right Hand Controls 6. Right Hand 2-PT Belt, Black Webbing 7. 12 Degree Recline 8. Powder Coated Black CRS (Cold Rolled Steel) Riser 9. Vinyl Inserts and Bolster (Recaro Lettering Stitching)	\$0
		X	Heated Seat (Reference Winter Weather Selection), included in seat cost	\$603
TS 78	Passenger Seating	X	Special Request - 31 Seated Passengers to match last build (EVERETT), American Seating, Model Insight, Thermoplastic Seat Module in 1471 Charcoal, Fabric Camira, Fusion, NBRB11	\$5,069
TS 81.5	Wheelchair Accomodations	X	Special Request - Two rear facing American Seating passive systems and two forward facing restraint systems with one side using Q'Straint removable Slide n Click	\$10,293
TS 79	Passenger Assists (Stanchions)	X	Base plus Rear Electric Plug-Slide Door (additional stanchions at exit door)	\$498
		X	Special Request - Add vertical stanchions to stabilize front ceiling grab rail.	\$159
TS 79.5	Overhead	X	Special Request - 16 total grab straps; 8 per side between rear and front axles. Red in color	\$300
TS 80	Passenger Doors	X	Ventura Electric, Rear Door is Plug, Slide Door	\$4,969
TS 80	Rear Door Operation	X	BASE - Driver Controlled Rear Door	\$0
TS 80	Door Safety	X	Base - Dual Redundant System (Sensitive Edge + Motor Feedback)	\$0
TS 81.1	Loading Systems for Low-Floor	X	Lift U LU18 6:1 / 8:1	\$2,436
TS 70.2	Bike Rack	X	Sportworks 2 position - DL2	\$1,517
TS 70.2	Bike Rack Sensor	X	Base - No Sensor Installed	\$0
TS 66	Front License Plate Holder	X	Mounted on Front bumper, toward street side of bus	\$40
TS 85	Passenger Stop Request / Exit	X	Pull Cords	\$393
TS 85	Stop Request, Misc	X	Base - Single Switch on Stanchion Forward of Rear Door	\$0
TS 85.1	ADA Stop Request Signal Type	X	Special Request - Touch pad for each of the the two rear facing w/c positions	Incl

Approved by:

Proterra: _____

Customer: _____



Option Tracker

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Number of buses	2	Summary of Configurable Options		\$268,233
Bus Length / Model	40' Catalyst E2	Total		\$934,315
Contract/P.O. #	TBD			
Tentative Delivery Date	Q3 2020			
Proterra Tech Spec	Category	Customer Selection	Option	Price Impact
TS 83	Destination Signs	X	Special Request - Twin Vision III Amber Front Sign 16 x 160 PN 906-1660-A01, Twin Vision III Amber Curb Side Sign 14 x 112 PN 986-1412-A05 (Curb Side), Twin Vision III Amber - 16 x 48PN 986-IN48-A01, Twin Vision III Stand Alone Camera - 511324001, Twin Vision III Amber Curb Side Sign 14 x 112 PN 986-1412-A05S (StreetSide)	\$11,070
TS 86.4.4	Emergency Alarm	X	Special Request - None	\$0
TS 85.1	Stop Requested-Next Stop	X	Base - Backlit "Stop Requested" sign, Transign #SRD300	\$0
TS 86.3	Standalone Automatic	X	Provided by ITS supplier (e.g. Clever Devices, Trapeze, etc)	\$0
	WiFi	X	Base - None	\$0
	Winter Weather Package	X	Base - Heated Front Doorway	\$0
TS 62	Hatches	X	2 x Clear Manually Operated	\$318
TS 75.1	Operator's Barrier	X	Quarter Barrier	\$2,439
TS 72.1	Passenger Information System	X	Special Request - Strategic Mapping Sign	Incl w/ ITS
TS 53.4	Passenger Windows	X	Transom / tip-in Only the rear 2 curb side and rear 3 street side windows shall be tip in. 3M Multi-layer Vandal Shields (rear-only)	\$12,924
TS 53.2	Emergency Exit (Egress)	X	Base - 4 Egress Windows (3 SS & 1 CS)	\$0
TS 69.2	Access Door Latch/Locks	X	Base - Square Key for Exterior Access Panels (Except the Access Panel for the Master Battery Disconnect Switch which remains unlocked)	\$0
TS 72	Decals, Numbering and	X	Special Request - Modified Decal Package per EVERETT B	\$188
TS 75.9	Interior Lighting	X	Base - Overhead LED Interior Lighting - White	\$0
		X	Add 11" Advertisement Holders (standard is 14")	\$286
TS 53	Airflow	X	Base - Interior overhead panels airflow	\$0
TS 76	Fare Collection	X	Special Request - Proterra Buy & install. Diamond RV with 2 vaults per fare box, D-10 Pedestal, stainless steel.	\$1,950
TS 86.1	Camera Surveillance System	X	Special Request - Proterra install. Apollo RoadRunner HDR12 9 Camera System w/ rear door 7" monitor mounted on front upper bulkhead for driver. Update - Need 2 hard drives per bus.	\$14,724
	Passive Collision Avoidance System	X	Base - None	\$0
TS 86.4	ITS	X	Special Request - Strategic Mapping ITS System	\$21,298
TS 86.2	Public Address System	X	Special Request - Proterra Buy & Install: REI Transit PA Amplifier, Low Profile - Model 700962. Low Profile Amplifier mounted in electronics cabinet. Gooseneck with mic mounted on/off switch mounted in driver's area.	\$46
TS 86.4	Voice/CB (2-way) Radio System	X	Special Request - Provision for a roof-mounted with a 36"x36" antenna ground plane (location near the front of the bus). Antenna coax to be routed through conduit to radio location on front dash near fare box.	\$450
TS 25	Towing	X	Capable of front tow and rear ditch extraction (no rear tow)	\$6,189
	Tow Connections	X	Base - Single Male Industrial fitting @ bumper and Rear SS access panel	\$0
TS 5.10	Fire Detection / Suppression	X	Base - Sophisticated Fire Detection in HV Batteries (as part of the BMS) & Fire Extinguisher	\$0
	Switch Panels	X	Base - Standard Proterra Layout	\$0
	Other	X	Coat Hanger - Behind the driver	\$38
		X	Safety Triangles KD 610-4645	Incl.
		X	24 unit first aid kit	Incl.
		X	Driver's Reading Light LED with on/off switch	\$60
		X	Drip Rails above Front & Back Doors - Included in new body design	Incl.
		X	Revised Interior Mirror Layout	\$0

Approved by:

Proterra: _____

Customer: _____



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Exhibit B Warranty

Headquarters

1815 Rollins Road, Burlingame, CA 94010

East Coast Manufacturing

1 Whitlee Court, Greenville, SC 29607

West Coast Manufacturing

383 Cheryl Lane, City of Industry, CA 91789

www.proterra.com



WARRANTY				REV G
Customer	Everett Transit			\$0
Number of buses	2			
Bus Length / Model	40' Catalyst E2			
Contract/P.O. #	TBD			
Tentative Delivery Date	Q3 2020			
Proterra Tech Spec	Category	Customer Selection	Option	Price Impact
NA	Bumper to Bumper	X	Base - 1yr/50,000miles	\$0
NA	Monocoque Structure (Body)	X	Base - 12yr/500,000miles	\$0
NA	Structural Systems	X	Base - 3yr/150,000miles	\$0
		X	Base Materials and Workmanship - 12yr/unlimited	\$0
NA	Battery (ESS)	X	Standard State of Health - 6yr/usage per warranty document)	\$0
NA	Subsystem - Air Compressor	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Traction	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - HVAC	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Power Steering	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - DCDC	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Transmission	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Brakes	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Destination Signs	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Defroster	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Doors	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Air Dryer	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - ADA Ramp	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Fire Suppression	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Seats	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Windows	X	Base - 2yr/100,000miles	\$0
NA	Subsystem - Axles	X	Base - 2yr/100,000miles	\$0

Configuration as noted above approved by:

Proterra: _____

Customer: _____

